

IN THE CLAIMS:

Please AMEND the claims in accordance with the following:

1. (CURRENTLY AMENDED) A method for displaying channel information on a digital television for receiving digital multichannel television broadcasting, comprising ~~the steps~~ of:

changing a current channel to a demanded major channel ~~outside of an EPG environment~~ in response to a demand to change a major channel; and

~~automatically displaying on a television screen, minor channel numbers of programs received through a currently selected~~ the demanded major channel ~~and a number of the major channel separately from the corresponding minor channel numbers without any extensions,~~

~~wherein the displaying comprises displaying the minor channel numbers and the major channel number simultaneously and displaying in a format of X, X-1, X-2 . . . X-n, wherein X is the currently selected major channel number, 1, 2 . . . n are minor channel numbers, and n is the highest minor channel number.~~

2-3. (CANCELLED)

4. (CURRENTLY AMENDED) The method as claimed in claim 1, further comprising ~~the step of~~ hiding said minor channel numbers after a prescribed time elapses.

5. (CURRENTLY AMENDED) The method as claimed in claim 4, further comprising ~~the step of~~ changing a current channel to a demanded minor channel in response to a demand to change a minor channel and returning to said ~~step of~~ displaying of minor channel numbers.

6. (CURRENTLY AMENDED) The method as claimed in claim 1, further comprising ~~the step of~~ hiding said major channel number and said minor channel numbers after a

prescribed time elapse.

7. (CURRENTLY AMENDED) A method for displaying channel information on a digital television for receiving digital multichannel television broadcasting, comprising ~~the steps~~ of:

selecting a radio frequency (RF) channel corresponding to a major channel number selected by a user ~~outside of an EPG environment~~;

displaying, as a viewing program, a program of a minor channel received through said selected RF channel corresponding to the major channel number selected by the user; and

~~automatically displaying minor channel numbers received through said major channel on a television screen and the major channel number, the major channel number being separate from the corresponding minor channel numbers without any extensions,~~

~~wherein the displaying comprises displaying the minor channel numbers and the major channel number simultaneously and displaying in a format of X, X-1, X-2 . . . X-n, wherein X is the major channel number, 1, 2 . . . n are minor channel numbers, and n is the highest minor channel number.~~

8. (ORIGINAL) The method as claimed in claim 7, wherein said minor channel numbers are arranged in a prescribed direction on said television screen.

9. (CANCELLED)

10. (CURRENTLY AMENDED) The method as claimed in claim 7, wherein said ~~step~~ of displaying a program displays, as said viewing program, a program of a lowest minor channel number among said minor channel numbers.

11. (CURRENTLY AMENDED) The method as claimed in claim 8, further comprising ~~the step of~~ changing said viewing program by selecting a corresponding minor channel in response to a channel up or down key being pressed.

12. (CURRENTLY AMENDED) The method as claimed in claim 11, wherein said ~~step of~~ changing said viewing program comprises ~~the steps of~~:

if said channel up key is pressed, determining if the minor channel number of said viewing program is a highest number among said minor channel numbers;

if the manor channel number of said viewing program is the highest number, displaying a program of a lowest minor channel number as said viewing program, and returning to said ~~step of~~ displaying minor channel numbers;

if the minor channel number of said viewing program is not the highest number displaying a program of a higher number adjacent to the minor channel number of said viewing program, and returning to said ~~step of~~ displaying minor channel numbers;

if a channel down key is pressed, determining if the minor channel number of said viewing program is the lowest number among said minor channel numbers;

if the minor channel number of said viewing program is the lowest number, displaying a program of the highest minor channel number as said viewing program, and returning to said ~~step of~~ displaying minor channel numbers; and

if the minor channel number of said viewing program is not the lowest number, displaying a program of a lower number adjacent to the minor channel dumber of said viewing program, and returning to said ~~step of~~ displaying minor channel numbers.

13. (CURRENTLY AMENDED) The method as claimed in claim 8, further comprising ~~the step of~~ changing said viewing program by selecting a corresponding major channel and a corresponding minor channel whenever a channel up or down key is pressed.

14. (CURRENTLY AMENDED) The method as claimed in claim 13, wherein said ~~step~~
~~of-changing~~ said viewing program comprises ~~the steps of~~:

if said channel up key is pressed, determining if the minor channel number
of said viewing program is a highest number among said minor channel numbers;

if the minor channel number of said viewing program is the highest number, selecting an
RF channel of the next major channel number of said selected major channel, and returning to
said ~~step of~~-displaying a program;

if the minor channel number of said viewing program is not the highest number,
displaying a program of a higher number adjacent to the minor channel number of said viewing
program as said viewing program, and returning to said ~~step of~~-displaying minor channel
numbers;

if a channel down key is pressed, determining if the minor channel number of said
viewing program is a lowest number among said minor channel numbers; if the minor channel
number of said viewing program is the lowest number, selecting an RF channel of the previous
major channel number of said selected major channel, and returning to said ~~step of~~-displaying
one of minor channel; and

if the minor channel number of said viewing program is not the lowest number, displaying
a program of a lower number adjacent to the minor channel number of said viewing program as
said viewing program, and returning to said ~~step of~~-displaying minor channel numbers.

15-16. (CANCELLED)

17. (CURRENTLY AMENDED) An apparatus for displaying channel information on a
digital television for receiving digital multichannel television broadcasting, comprising:

a channel changing device to change a current channel to a selected major channel

~~outside of an EPG environment; and~~

~~a display to automatically display minor channel numbers of programs received through the selected major channel and a number of the major channel separately from the corresponding minor channel numbers without any extensions, wherein the display displays the minor channel numbers and the major channel number simultaneously and displays in a format of X, X-1, X-2 . . . X-n, wherein X is the major channel number, 1, 2 . . . n are minor channel numbers, and n is the highest minor channel number.~~

18. (CURRENTLY AMENDED) A device for displaying channel information on a digital television for receiving digital multichannel television broadcasting, comprising:

a selecting device to select a radio frequency channel corresponding to a major channel number selected by a user ~~outside of an EPG environment; and~~

a display to display, as a viewing program, a program of a minor channel received through said selected RF channel corresponding to the major channel number selected by the user, and to ~~automatically display~~ minor channel numbers received through said major channel and the major channel number separately from the corresponding minor channel numbers without any extensions,

wherein the display displays the minor channel numbers and the major channel number simultaneously and displays in a format of X, X-1, X-2 . . . X-n, wherein X is the major channel number, 1, 2 . . . n are minor channel numbers, and n is the highest minor channel number.

19-22. (CANCELLED)

23. (PREVIOUSLY PRESENTED) The method as claimed in claim 18, further comprising displaying the program of the selected minor channel, wherein the programs of the non-selected minor channel are not displayed.

24. (CURRENTLY AMENDED) A method comprising:

displaying a major channel number ~~separately from and~~ a corresponding minor channel number of a program received through the major channel ~~without any extensions, wherein the displaying comprises displaying the minor channel numbers and the major channel number simultaneously and displaying in a format of X, X-1, X-2 . . . X-n, wherein X is the major channel number, 1, 2 . . . n are minor channel numbers, and n is the highest minor channel number.~~

25-26. (CANCELLED)

27. (NEW) The method as claimed in claim 1, wherein the changing the current channel comprises changing outside of an EPG environment.

28. (NEW) The method as claimed in claim 1, wherein the displaying on a television screen comprises automatically displaying.

29. (NEW) The method as claimed in claim 1, wherein the programs having the minor channel numbers are on a same RF band as the major channel.

30. (NEW) The method as claimed in claim 24, wherein the programs having the minor channel numbers are on a same RF band as the major channel.